

## A B S T R A C T

The invention relates to methods of producing and improving an optical transmission line comprising the combination of a line optical fiber and an original or modified module for compensating the chromatic dispersion of said line optical fiber. The modified compensation module is a module for compensating chromatic dispersion of a line optical fiber (1) in a plurality of contiguous and non-overlapping spectral bands each covering at least 30 nanometers, the module including a structure (9) carrying a plurality of submodules (4, 8) at least one of which is separable from the structure (9), which are disposed in series, which are interconnected by one or more connections (6) identifiable to the naked eye without optical measurement and accessible from the exterior without damaging the module, and each of which includes a support to which is fixed at least one optical fiber (2, 7) for compensating chromatic dispersion, at least one optical fiber (2) of said plurality of compensation optical fibers (2, 7) having a compensation ratio from 0.9 to 1.1 for the center wavelength of one of said spectral bands, and at least two submodules (4, 8) having compensation optical fibers (2, 7) of different kinds.